Amendments to the Claims

The following listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently Amended): A semiconductor device comprising:

a capacitor formed above a semiconductor substrate and including

a <u>straight</u> cylindrical-shaped storage electrode having a cylindrical projection, an edge of the cylindrical projection being located on an uppermost part of the <u>straight</u> cylindrical-shaped storage electrode,

a capacitor dielectric film formed on the storage electrode, and

a plate electrode formed on the capacitor dielectric film,

the edge of the cylindrical projection being rounded and having a larger thickness than a thickness in a rest remaining portion of the cylindrical projection.

2. (Currently Amended): A semiconductor device according to claim 1, wherein the <u>straight</u> cylindrical-shaped storage electrode has a thickness gradually thickened toward the edge of the cylindrical projection. Response under 37 C.F.R. §1.111 Attorney Docket No. 011724 Serial No. 10/020,951

- 3. (Previously Presented): A semiconductor device according to claim 1, wherein a side surface of the cylindrical projection is tilted and a circumferential length of the cylindrical projection is gradually increased toward the edge of the cylindrical projection.
- 4. (Previously Presented): A semiconductor device according to claim 2, wherein a side surface of the cylindrical projection is tilted and a circumferential length of the cylindrical projection is gradually increased toward the edge of the cylindrical projection.
 - 5-6. (Canceled)
 - 7. (Currently Amended): A semiconductor device according to claim 1, wherein
- a border portion between a side surface and a bottom surface of the <u>straight</u> cylindrical-shaped storage electrode is rounded.
 - 8. (Currently Amended): A semiconductor device according to claim 2, wherein
- a border portion between a side surface and a bottom surface of the <u>straight</u> cylindrical-shaped storage electrode is rounded.
 - 9. (Currently Amended): A semiconductor device comprising:
 - a capacitor formed above a semiconductor substrate and including

a <u>straight</u> cylindrical-shaped storage electrode having a cylindrical projection, an edge of the cylindrical projection being located on an uppermost part of the <u>straight</u> cylindrical-shaped storage electrode,

a capacitor dielectric film formed on the storage electrode, and a plate electrode formed on the capacitor dielectric film,

the <u>straight</u> cylindrical-shaped storage electrode being formed of a metal film and having a larger thickness at the edge of the cylindrical projection than a thickness in a <u>rest</u> remaining portion of the cylindrical projection.

10. (Currently Amended): A semiconductor device according to claim 9, wherein the straight cylindrical-shaped storage electrode has a thickness gradually thickened toward the edge of the cylindrical projection.

11. (Currently Amended): A semiconductor device comprising: a capacitor formed above a semiconductor substrate and including

a <u>straight</u> cylindrical-shaped storage electrode having a cylindrical projection, an edge of the cylindrical projection being located on an uppermost part of the <u>straight</u> cylindrical-shaped storage electrode,

a capacitor dielectric film formed on the storage electrode, and a plate electrode formed on the capacitor dielectric film,

the <u>straight</u> cylindrical-shaped storage electrode being formed of a metal film and the edge of the cylindrical projection being rounded.

Response under 37 C.F.R. §1.111 Attorney Docket No. 011724 Serial No. 10/020,951

- 12. (Currently Amended): A semiconductor device according to claim 11, wherein the straight cylindrical-shaped storage electrode has a thickness gradually thickened toward the edge of the cylindrical projection.
- 13. (Withdrawn): A method for fabricating a semiconductor device comprising the steps of:

forming an insulation film above a semiconductor substrate;

forming an opening in the insulation film;

forming a storage electrode electrically connected to the semiconductor substrate and formed in the opening;

conducting a heat treatment to round an upper end of the storage electrode; forming a capacitor dielectric film on the storage electrode; and forming a plate electrode on the capacitor dielectric film.

- 14. (Withdrawn): A method for fabricating a semiconductor device according to claim13, further comprising, after the step of forming the storage electrode, the step of:removing the insulation film.
- 15. (Withdrawn): A method for fabricating a semiconductor device according to claim 13, wherein

in the step of forming the storage electrode, the storage electrode is formed with a liner film formed on at least a side surface of the opening interposed therebetween.

16. (Withdrawn): A method for fabricating a semiconductor device according to claim 14, wherein

in the step of forming the storage electrode, the storage electrode is formed with a liner film formed on at least a side surface of the opening interposed therebetween.

- 17. (Withdrawn): A method for fabricating a semiconductor device according to claim 15, further comprising, before the step of conducting the heat treatment, the step of: etching the liner film by a required amount from a surface side of the insulation film.
- 18. (Withdrawn): A method for fabricating a semiconductor device according to claim
 16, further comprising, before the step of conducting the heat treatment, the step of:
 etching the liner film by a required amount from a surface side of the insulation film.
- 19. (Withdrawn): A method for fabricating a semiconductor device according to claim 13, wherein

in the step of forming the storage electrode, the storage electrode of a cylindrical shape formed along a side surface and a bottom surface of the opening is formed.

Response under 37 C.F.R. §1.111 Attorney Docket No. 011724 Serial No. 10/020,951

20. (Withdrawn): A method for fabricating a semiconductor device according to claim 14, wherein

in the step of forming the storage electrode, the storage electrode of a cylindrical shape formed along a side surface and a bottom surface of the opening is formed.